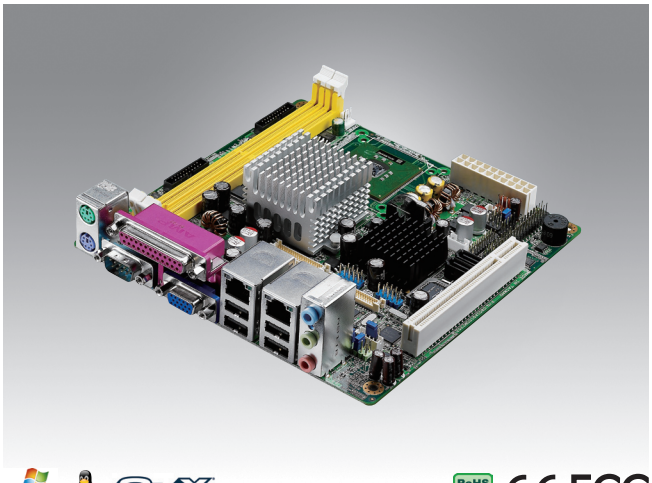
AIMB-252

Intel® Pentium® M/Celeron® M Mini-ITX with Dual LVDS, 5 COM, and Dual LAN



Features

- Supports Intel® socket 478 Pentium® M/Celeron® M Processor
- Intel 910GMLE/915GME and ICH6M
- Two DIMM sockets support up to 2 GB DDR2 400/533 MHz SDRAM
- Supports 5 serial ports, 2 SATA, 8 USB and Dual LVDS display (optional)
- Supports embedded software APIs and utilities

Software APIs: SMBus, H/W Monitor, GPIO, Watchdog

Utilities: BIOS flash, Monitoring

Specifications

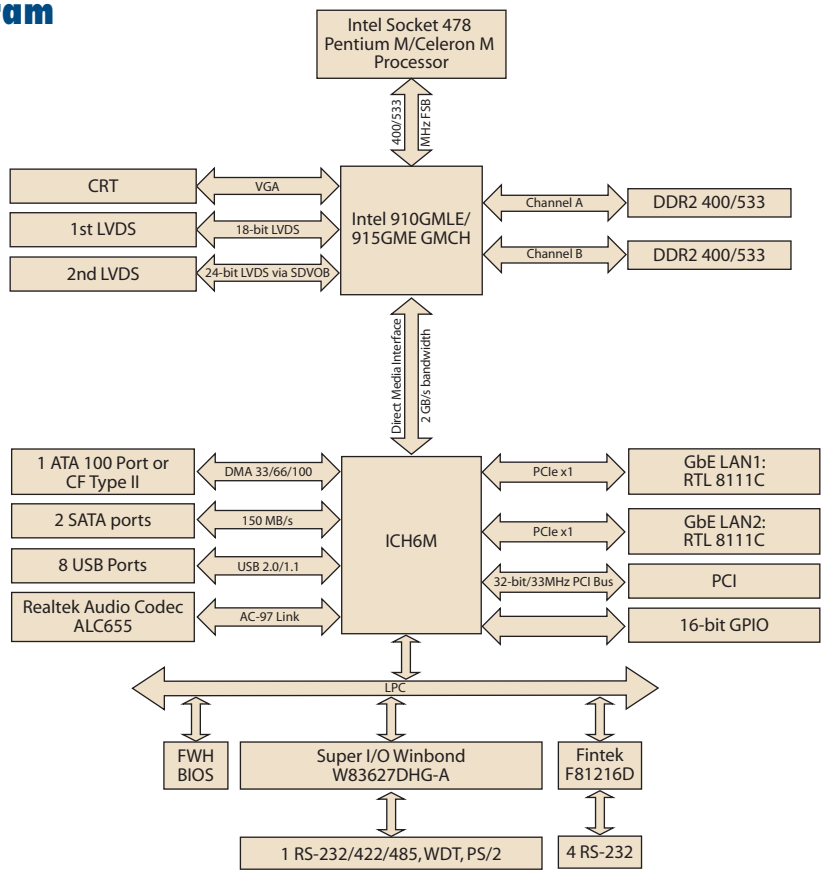
Processor System	CPU (130/90 nm, µFC-PGA 478)	Intel Pentium M	Intel Celeron M	Intel ULV Celeron M	Intel ULV Celeron M
	Max. Speed	760 2.0 GHz	370 1.5 GHz	600 MHz on board	1 GHz on board
	Front Side Bus	400/533 MHz	400 MHz	400 MHz	400 MHz
	L2 Cache	2 MB	1 MB	512 KB	-
	Chipset	Intel 910GMLE*/915GME + ICH6M			
	BIOS	Award 4 Mbit, FWH			
Expansion Slot	PCI	32-bit/33 MHz, 1 slot			
	Mini-PCI	-			
	PCIe	-			
Memory	Technology	Dual channel DDR2 400/533 MHz SDRAM			
	Max. Capacity	2 GB			
	Socket	2 x 240-pin DIMM			
Graphics	Controller	Intel 910GMLE/915GME GMCH integrated Graphics Media Accelerator 900			
	VRAM	Intel DVMT 3.0 supports up to 128 MB video memory			
	1st LVDS	Single channel 18-bit/Dual channel 36-bit LVDS			
	2nd LVDS (optional)	Single channel 18/24-bit/Dual channel 36/48-bit LVDS, via Chrontel 7308B SDVO transmitter			
	DVI	None			
	Dual Display	CRT + LVDS, LVDS + LVDS			
Ethernet	Interface	10/100/1000 Mbps			
	Controller	GbE LAN1: Realtek RTL8111C; GbE LAN2: Realtek RTL8111C			
	Connector	RJ-45 x 2			
SATA	Max Data Transfer Rate	150 MB/s			
	Channel	2			
EIDE	Mode	EIDE (Ultra DMA 100)			
	Channel	1			
SSD	CompactFlash	Supports CompactFlash Type I/II			
Rear I/O	VGA	1			
	Ethernet	1 (for VG version); 2 (for G2 version)			
	USB	4 (USB 2.0 compliant)			
	Audio	3 (Mic-in, Line-out, Line-in)			
	Serial	1 (RS-232/422/485)			
	Parallel	1			
	PS/2	2 (1 x keyboard and 1 x mouse)			
Internal Connector	LVDS & Inverter	1			
	USB	4 (USB 2.0 compliant)			
	Serial	4 (RS-232)			
	IDE	1			
	SATA	2			
	CompactFlash	1			
	IrDA	-			
	DIO	16-bit GPIO			
Watchdog Timer	Output	System reset			
	Interval	Programmable 1 ~ 255 sec/min			
Power Requirements	Power On	Intel 915GME and Pentium M 760 2.0 GHz FSB 533 MHz, 2 GB DDR2 SDRAM			
		+5 V	+3.3 V	+12 V	+5 VSB
		2.61 A	0.71 A	1.93 A	0.59 A
Environment		Operating		Non-Operating	
	Temperature	0 ~ 60° C (32 ~ 140° F)		-20 ~ 70° C (-4 ~ 158° F)	
Physical Characteristics	Dimensions	170 mm x 170 mm (6.69" x 6.69")			

* Intel 910GMLE only supports FSB 400 processor and DDR2 400 SDRAM

All product specifications are subject to change without notice

Last updated : 25-Apr-2011

Board Diagram



Ordering Information

Part Number	CPU	Chipset	DDR2	GbE	COM	LVDS
AIMB-252VG-M0A1E	ULV Celeron M 600 MHz	910GMLE	400	1	5	1
AIMB-252VG-S0A1E	ULV Celeron M 1 GHz	910GMLE	400	1	5	1
AIMB-252G2-00A1E	-	915GME	400/533	2	5	1

Bracket View

AIMB-252VG-M0A1E
AIMB-252VG-S0A1E

AIMB-252G2-00A1E

Packing List

Description	Quantity
AIMB-252 SBC	x 1
IDE HDD cable (40-pin)	x 1
SATA HDD cable	x 2
SATA power cable	x 2
Serial port cable 1-to-2	x 2
CPU cooler	x 1
I/O port bracket	x 1
Startup manual	x 1
Driver CD	x 1

Optional Accessories

Part Number	Description
1700003195	USB cable with two ports, 17.5 cm
1700002204	USB cable with two ports, 27 cm
1700008461	USB cable with four ports, 30.5 cm

Embedded OS/API

OS/API	Part No.	Description
Win XPE	2070006673	XPE FP2007 AIMB-252 V3.01 ENG
	2070003985	XPE FP2007 AIMB-252 V3.1 ENG
	2070005149	XPE FP2007 AIMB-252 V3.5 JPN_ENG
Software API	205E000021	SUSI 3.0 SW API for AIMB-252 XP